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Jane Fule

## TECHNICAL REQUIREMENTS BOARD MEETING

26 May 1959, 1430 Hours

Room 2004 "L"

AGENDA

1. Production of  Radio Sets (AS-3) and receiver-converters (CV-2A)

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Attachment 1: Commitments from the operating divisions for 202 AS-3's and 125 CV-2A's. The AS-3 figure is well below OC's estimate of the quantity needed.

ACTION REQUIRED: Decision and approval.

2. Showing or releasing new equipment to other services

Attachment 2 is a proposed position paper.

ACTION REQUIRED: Agreement and decision.

3. Progress Reports on Requirements

a. Office of Communications

Attachment 3: Report on field tests

Attachment 4: Recommendations on:

Electronic letterdrop (R-5)

Short-range transceiver - buzzer (R-6)

Short-range transceiver - voice (R-7)

ACTION REQUIRED: Decision on recommendations

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13 May 1959

MEMORANDUM FOR: The Technical Requirements Board

SUBJECT : Procurement of new Communications equipment:  
AS-3 and CV-2A

1. The Office of Communications requested the operating divisions to determine how many units of the AS-3 and the CV-2A they would like the Office of Communications to have manufactured, and to provide funds for this manufacture. For the record, the AS-3 is regarded as the   set to replace the RS-6 and its unit cost is estimated at \$3,500 without receiver. The CV-2A is a receiver-converter with crystal control. Its unit cost is estimated at \$100.

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2. Following are the replies from the divisions:

<u>DIVISION</u>	<u>AS-3</u>	<u>CV-2A</u>
EE	65 (Twenty Hellischreiber receivers attachments are requested in addition to the normal AS-3 units.) No allocation of funds yet determined.	50
FE	10 \$36,000 will be allocated to cover both items. The AS-3 estimate may be revised (upward) before the end of the FY.	10
NE	20 for this FY 20 for next FY No commitment of funds for this FY yet determined.	20
SR	15 \$52,500 chargeable to 9-3401-03-257; Obligation ref. no. is 1423	15 \$1500 chargeable to 9-3400-10-200; Obligation ref. no. is 1423
WE	70 No funds presently available	30 Pending discussion with liaison services, no funds yet allocated.

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-2-

DIVISIONAS-3CV-2A

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\$7,000 available under amendments  
to two projects.

TOTALS

202

125

3. It is understood that delivery of the AS-3's will be by or before July 1960 and delivery of the CV-2A's will be by or before October 1959.

4. Further budgetary information and further data on specific allotments will be provided as received from the divisions.

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-3-


## CONCLUSIONS

An exercise such as this one to "field test" equipment in prototype form is definitely useful and should be repeated. In future such efforts the OC engineers should have more opportunity to check out the equipment prior to the arrival of the "customers." It is recognized that all the equipment is in prototype or hand-made or temporarily assembled form and that equipment breakdowns are to be expected. Nevertheless some of the operational problems connected with the equipment can be usefully explored.

## RECOMMENDATIONS

Specific recommendations on items of equipment will be made in separate reports prepared on each item of equipment.

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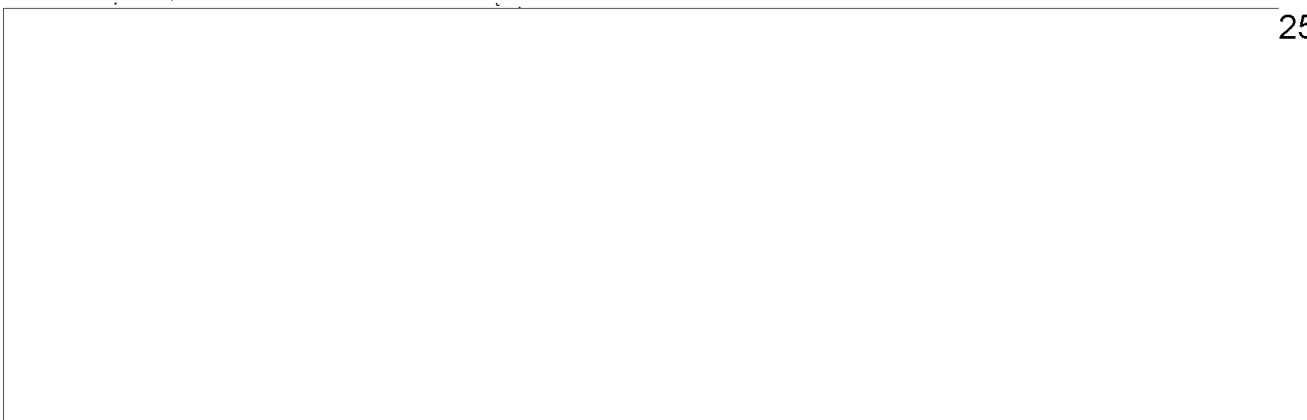
22 May 1959

MEMORANDUM FOR: Technical Requirements Board


SUBJECT : Progress report on:  
R-5: One-way electronic letterdrop

1. In a memorandum dated 31 March 1959 the Technical Requirements Officers stated they wished to defer recommendations on this requirement until there had been an opportunity to field test the equipment prototypes. Such a field test was conducted on 18 May 1959.

2. The comments of the Technical Requirements Officers, quoted in a memorandum on the field test, were:

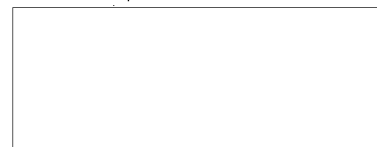


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2. A new solution is needed to the antenna problem. While the  antenna could conceivably be used under some circumstances, its clumsiness rules it out as a satisfactory solution.

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3. Another progress report should be made on this requirement, together with an opportunity to field test equipment prototypes, on 28 September 1959.



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22 May 1959

## MEMORANDUM FOR: Technical Requirements Board

SUBJECT : Progress report on:  
R-6: Short-range radio transceivers  
(buzzer)  
R-7: Short-range radio transceivers  
(voice)

1. In a report dated 24 April 1959 the Technical Requirements Officers recommended deferring comment on the two requirements concerning short-range radio transceivers until there had been the opportunity for actual field tests. Such tests were held on 18 May 1959.

2. Here are the comments of the Technical Requirements Officers, quoted from their report on these tests:

"These tests were discouraging as they left the conclusion that no hardware would be ready for another year. The range of the re-packaged Signal Corps helmet set was simply too short. If more than a hundred yards apart, or if operating around the corner of a building, contact between the wearers was simply lost. As for the RS-19, the [ ] antennas for transmitting and for receiving are impractical for surveillance team use. Signals fade when the feet are lifted from the pavement which means it is virtually necessary to stand still in order to transmit or receive. Furthermore, the level of background noise in the receiver was so high that it would distract attention from the wearer's observation or surveillance tasks. For many situations, it was agreed, a simple two-way buzzer device would be sufficient rather than a combination buzzer and voice system." 25X1

## RECOMMENDATIONS

1. Requirement R-6 for a buzzer system should be maintained, parallel with Requirement R-7 for a voice system.

2. OC should first address itself to the completion of a successful buzzer system, including testing the TSS buzzer equipment now in prototype form and any other applicable commercial or developmental models, in order to produce an interim means pending further progress on voice systems.

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-2-

3. The problem of [ ] antennas warrants a concentrated effort. Solutions should not involve the need for specially fabricating in

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4. Further testing is called for on increasing the range of the equipment in order to operate over a distance of at least two city blocks.

5. OC should make another report on this requirement, complete with a program of field testing by the customers, by or before 29 September 1959.

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